

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A co-crystal comprising FimC, FimH and mannopyranoside in crystalline form.

Claim 2 (original): The co-crystal of Claim 1 in which the FimC or FimH is a mutant.

Claim 3 (original): The co-crystal of Claim 2 in which the mutant is a conservative mutant.

Claim 4 (original): The co-crystal of Claim 2 in which the FimH is FimH Q133N.

Claim 5 (original): The co-crystal of Claim 2 in which the FimH comprises amino acids 1 to 158 of SEQ ID NO:4.

Claim 6 (original): The co-crystal of Claim 1, which is diffraction quality.

Claim 7 (original): The co-crystal of Claim 1, which is a native crystal.

Claim 8 (original): The co-crystal of Claim 1, which is a heavy-atom derivative crystal.

Claim 9 (original): The co-crystal of Claim 1, which is characterized by a unit cell of $a=138.077 \pm 0.2\text{\AA}$, $b=138.130 \pm 0.2\text{\AA}$, $c= 215.352 \pm 0.2\text{\AA}$, $\alpha=90$, $\beta=90.005$, and $\gamma=90$.

Claim 10 (original): The co-crystal of Claim 1, which is produced by a method comprising the steps of:

- (a) mixing a volume of a solution comprising FimC, FimH and mannopyranoside with a volume of a reservoir solution comprising a precipitant; and
- (b) incubating the mixture obtained in step (a) over the reservoir solution in a closed container, under conditions suitable for crystallization until the crystal forms.

Claim 11 (original): The co-crystal of Claim 10, wherein the precipitant is present in a concentration between 0.6 M and 1.2 M.

Claim 12 (original): The co-crystal of Claim 10 wherein the precipitant is ammonium sulfate.

Claim 13 (original): The co-crystal of Claim 10, wherein the solution further comprises between 50 mM and 100 mM Tris HCl.

Claim 14 (original): The co-crystal of Claim 10, wherein the solution comprises between 0.5 mM and 30 mM mannopyranoside.

Claim 15 (original): The co-crystal of Claim 10, wherein the solution has a pH of between 7.8 and 8.6.

Claim 16 (original): A method of making the crystal of Claim 1, comprising:

- (a) mixing a volume of a solution comprising the FimC, FimH and mannopyranoside with a volume of a reservoir solution comprising a precipitant; and
- (b) incubating the mixture obtained in step (a) over the reservoir solution in a closed container, under conditions suitable for crystallization until the crystal forms.

Claim 17 (original): The method of Claim 16, wherein the precipitant is present in a concentration between 0.6 M and 1.2 M.

Claim 18 (original): The method of Claim 16, wherein the precipitant is ammonium sulfate.

Claim 19 (original): The method of Claim 16, wherein the solution further comprises between 50 mM and 100 mM Tris HCl.

Claim 20 (original): The method of Claim 16, wherein the solution comprises between 0.5 mM and 30 mM mannopyranoside.

Claim 21 (original): The method of Claim 16, wherein the solution has a pH of between 7.8 and 8.6.

Claims 22-32 (canceled).

Claim 33 (original): A co-crystal comprising FimC, FimH, and a saccharide.